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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,741	05/18/2005	Seiji Nakahata	4878/PCT	9438
	7590 01/02/2008 NT ATTORNEYS, P.A.	EXAMINER		
P.O. BOX 726	·		MULPURI, SAVITRI	
HAMPDEN, M	E 04444-0726		ART UNIT	PAPER NUMBER
			2812	
		•		•
			MAIL DATE	DELIVERY MODE
	•		01/02/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/535,741	NAKAHATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Savitri Mulpuri	2812				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion is a period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15	5 October 2007.					
2a)⊠ This action is FINAL . 2b)☐ T	his action is non-final.					
3) Since this application is in condition for allow	•	· ·	merits is			
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.				
Disposition of Claims		·				
4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are without						
5) Claim(s) is/are allowed.						
5)⊠ Claim(s) <u>1-2,4-6,8-10,12</u> is/are rejected.						
7)⊠ Claim(s) <u>3,7 and 11</u> is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to t	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the core						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTC	D-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume		· ·				
3. Copies of the certified copies of the p		n received in this National S	Stage			
application from the International Bur		traccivad				
* See the attached detailed Office action for a	ist of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				

3) Information Disclosure Paper No(s)/Mail Date	
U.S. Patent and Trademark Office	
PTOL-326 (Rev. 08-06)	

2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: ____.

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DETAILED ACTION

This action is in response to the applicant communication filed on 10/15/2007

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-6, 8-10, 12 rejected under 35 U.S.C. 103(a) as being unpatentable over Xu et al

Claim1-2, 4-6, 8-10,12 are rejected under 35 U.S.C. 102(e) as being anticipated by Xu et al (US 6,488,767).or miyajima et al (US 5,376,222) or Doy(US 5,032,203 Or Mori (6,652,658) or Fujimi (JP 020-44726.

Xu et al teaches a method of processing a surface of a nitride semiconductor crystal, wherein a surface of a nitride semiconductor crystal is brought into t contact with a liquid conataining at least Na as in process solution. Xu et al teaches polishing Al_x Ga_y In_{1-x-y} N in base solution coantaining sodium hydroxide (NaoH) to obtain the surface characterized by surface roughness less than 1 nm (.3 nm) (Abstract, col3, lines 16-25). Xu et al also teaches the process and product of obtaining Al_x Ga_y In_{1-x-y} N by polishing

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in NaOH solution to reduce the roughness from 10 microns to less than 10 microns (col.11, lines 60-64). Xu et al uses NaOH as polishing solution.

Miayajima et al uses mentally salt of Na (col.5, lines 3-15)

Doy uses sodium bromide (abstract).

Mori et al uses NaCl as alternative NaOH (col.2, lines 1-7)

Fujimi (JP 010-44726) teaches adding Na or K to reduce haze on the surface of the substrate. (Abstract).

However using metallic salt such as Na or sodium bromide or NaCl in the polishing solution is obvious in view of Miyajima et al for effective polishing (US 5,376,222) see col.5, lines 3-15) or Na would have been obvious in the invention of Xu et al because all of the chemicals in the polishing solution gives effective polished surface.

Claims 3,7,11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments with respect to claims 1-12 have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sayitri Mulpuri Primary Examiner Art Unit 2812